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Reviewer: Anne Corrigan

Timestamp: [year=2008; month=5; day=29; hr=16; min=51; sec=42; ms=707; ]

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Application No: 10594771 Version No: 1.1

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<110> SHIMADA, Hideaki  
TOMONAGA, Takeshi  
HIWASA, Takaki  
MATSUSHITA, Kazuyuki  
OCHIAI, Takenori  
NOMURA, Fumio

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<151> 2004-03-29

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Ser Ala Ala Leu Arg Arg Ser Phe Ser Thr Ser Ala Gln Asn Asn Ala

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aaa gta gct gtg cta ggg gcc tct gga ggc atc ggg cag cca ctt tca 209

Lys Val Ala Val Leu Gly Ala Ser Gly Gly Ile Gly Gln Pro Leu Ser

30 35 40

ctt ctc ctg aag aac agc ccc ttg gtg agc cgc ctg acc ctc tat gat 257

Leu Leu Leu Lys Asn Ser Pro Leu Val Ser Arg Leu Thr Leu Tyr Asp

45 50 55

atc gcg cac aca ccc gga gtg gcc gca gat ctg agc cac atc gag acc 305

Ile Ala His Thr Pro Gly Val Ala Ala Asp Leu Ser His Ile Glu Thr

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| Lys Ala Ala Val Lys Gly Tyr Leu Gly Pro Glu Gln Leu Pro Asp Cys |      |
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| Leu Lys Gly Cys Asp Val Val Val Ile Pro Ala Gly Val Pro Arg Lys |      |
| 90 95 100 105   |      |
| cca ggc atg acc cgg gac gac ctg ttc aac acc aat gcc acg att gtg | 449  |
| Pro Gly Met Thr Arg Asp Asp Leu Phe Asn Thr Asn Ala Thr Ile Val |      |
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| gcc acc ctg acc gct gcc tgt gcc cag cac tgc ccg gaa gcc atg atc | 497  |
| Ala Thr Leu Thr Ala Ala Cys Ala Gln His Cys Pro Glu Ala Met Ile |      |
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| tgc gtc att gcc aat ccg gtt aat tcc acc atc ccc atc aca gca gaa | 545  |
| Cys Val Ile Ala Asn Pro Val Asn Ser Thr Ile Pro Ile Thr Ala Glu |      |
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| Val Phe Lys Lys His Gly Val Tyr Asn Pro Asn Lys Ile Phe Gly Val |      |
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| acg acc ctg gac atc gtc aga gcc aac acc ttt gtt gca gag ctg aag | 641  |
| Thr Thr Leu Asp Ile Val Arg Ala Asn Thr Phe Val Ala Glu Leu Lys |      |
| 170 175 180 185   |      |
| ggg ttg gat cca gct cga gtc aac gtc cct gtc att ggt ggc cat gct | 689  |
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| ggg aag acc atc atc ccc ctg atc tct cag tgc acc ccc aag gtg gac | 737  |
| Gly Lys Thr Ile Ile Pro Leu Ile Ser Gln Cys Thr Pro Lys Val Asp |      |
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| ttt ccc cag gac cag ctg aca gca ctc act ggg cgg atc cag gag gcc | 785  |
| Phe Pro Gln Asp Gln Leu Thr Ala Leu Thr Gly Arg Ile Gln Glu Ala |      |
| 220 225 230   |      |
| ggc acg gag gtg gtc aag gct aaa gcc gga gca ggc tct gcc acc ctc | 833  |
| Gly Thr Glu Val Val Lys Ala Lys Ala Gly Ala Gly Ser Ala Thr Leu |      |
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| Met Asn Gly Lys Glu Gly Val Val Glu Cys Ser Phe Val Lys Ser Gln |      |
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| Glu Thr Glu Cys Thr Tyr Phe Ser Thr Pro Leu Leu Leu Gly Lys Lys |      |
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35 40 45

Leu Val Ser Arg Leu Thr Leu Tyr Asp Ile Ala His Thr Pro Gly Val  
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Ala Ala Asp Leu Ser His Ile Glu Thr Lys Ala Ala Val Lys Gly Tyr  
65 70 75 80

Leu Gly Pro Glu Gln Leu Pro Asp Cys Leu Lys Gly Cys Asp Val Val  
85 90 95

Val Ile Pro Ala Gly Val Pro Arg Lys Pro Gly Met Thr Arg Asp Asp  
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Leu Phe Asn Thr Asn Ala Thr Ile Val Ala Thr Leu Thr Ala Ala Cys  
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Asn Ser Thr Ile Pro Ile Thr Ala Glu Val Phe Lys Lys His Gly Val  
145 150 155 160

Tyr Asn Pro Asn Lys Ile Phe Gly Val Thr Thr Leu Asp Ile Val Arg  
165 170 175

Ala Asn Thr Phe Val Ala Glu Leu Lys Gly Leu Asp Pro Ala Arg Val  
180 185 190

Asn Val Pro Val Ile Gly Gly His Ala Gly Lys Thr Ile Ile Pro Leu  
195 200 205

Ile Ser Gln Cys Thr Pro Lys Val Asp Phe Pro Gln Asp Gln Leu Thr  
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Ala Leu Thr Gly Arg Ile Gln Glu Ala Gly Thr Glu Val Val Lys Ala  
225 230 235 240

Lys Ala Gly Ala Gly Ser Ala Thr Leu Ser Met Ala Tyr Ala Gly Ala  
245 250 255

Arg Phe Val Phe Ser Leu Val Asp Ala Met Asn Gly Lys Glu Gly Val  
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Val Glu Cys Ser Phe Val Lys Ser Gln Glu Thr Glu Cys Thr Tyr Phe  
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Ser Thr Pro Leu Leu Leu Gly Lys Lys Gly Ile Glu Lys Asn Leu Gly  
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 Gly Leu Asn Ser Leu Glu Ala Val Lys Arg Lys Ile Gln Ala Leu Gln  
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cag cag gcg gac gag gcg gaa gac cgc gcg cag ggc ctg cag cgg gag 152  
 Gln Gln Ala Asp Glu Ala Glu Asp Arg Ala Gln Gly Leu Gln Arg Glu  
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cag gaa cga ctg gcc acg gcc ctg cag aag ctg gag gag gca gaa aaa 296  
 Gln Glu Arg Leu Ala Thr Ala Leu Gln Lys Leu Glu Glu Ala Glu Lys  
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gct gca gat gag agt gag aga gga atg aag gtg ata gaa aac cgg gcc 344  
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gcc aag cac att gcg gaa gag gct gac cgc aaa tac gag gag gta gct 440  
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| Ser Glu Lys Glu Asp Lys Tyr Glu Glu Glu Ile Lys Leu Leu Ser Asp   |         |
| 180 185 190   |         |
| aaa ctg aaa gag gct gag acc cgt gct gaa ttt gca gag aga acg gtt   | 680     |
| Lys Leu Lys Glu Ala Glu Thr Arg Ala Glu Phe Ala Glu Arg Thr Val   |         |
| 195 200 205 210   |         |
| gca aaa ctg gaa aag aca att gat gac ctg gaa gag aaa ctt gcc cag   | 728     |
| Ala Lys Leu Glu Lys Thr Ile Asp Asp Leu Glu Glu Lys Leu Ala Gln   |         |
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| Ala Lys Glu Glu Asn Val Gly Leu His Gln Thr Leu Asp Gln Thr Leu   |         |
| 230 235 240   |         |
| aac gaa ctt aac tgt ata taa gcaaaacaga agagtcttgt tccaacagaa      | 827     |
| Asn Glu Leu Asn Cys Ile   |         |
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| agaagctttg agcaccagtt aaatctcatt ccttcccttt ttttttcaaa tggcaccagc | 1007    |
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 50 55 60

Arg Ala Gln Glu Arg Leu Ala Thr Ala Leu Gln Lys Leu Glu Glu Ala  
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Glu Lys Ala Ala Asp Glu Ser Glu Arg Gly Met Lys Val Ile Glu Asn  
 85 90 95

Arg Ala Met Lys Asp Glu Glu Lys Met Glu Ile Gln Glu Met Gln Leu  
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Lys Glu Ala Lys His Ile Ala Glu Glu Ala Asp Arg Lys Tyr Glu Glu  
 115 120 125

Val Ala Arg Lys Leu Val Ile Leu Glu Gly Glu Leu Glu Arg Ala Glu  
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Glu Arg Ala Glu Val Ser Glu Leu Lys Cys Gly Asp Leu Glu Glu Glu  
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Leu Lys Asn Val Thr Asn Asn Leu Lys Ser Leu Glu Ala Ala Ser Glu

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170

175

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Ser Asp Lys Leu Lys Glu Ala Glu Thr Arg Ala Glu Phe Ala Glu Arg  
 195 200 205

Thr Val Ala Lys Leu Glu Lys Thr Ile Asp Asp Leu Glu Glu Lys Leu  
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gac atc agc ccc aaa cag gac gaa ggc gtg ctg aag gtc atc aag aga 270  
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gag ggc aca ggt aca gag atg ccc atg att ggg gac cga gtc ttt gtc 318  
 Glu Gly Thr Gly Thr Glu Met Pro Met Ile Gly Asp Arg Val Phe Val  
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cac tac act ggc tgg cta tta gat ggc aca aag ttt gac tcc agt ctg 366  
 His Tyr Thr Gly Trp Leu Leu Asp Gly Thr Lys Phe Asp Ser Ser Leu  
 60